

sub B 17. Glass tempering apparatus comprising: first and second deformable platens each of which has quench openings that move therewith during deformation thereof; and the first and second deformable platens opposing each other to receive a bent glass sheet therebetween to supply quenching gas through the quench openings to temper the bent glass sheet.

18. Glass bending and tempering apparatus comprising: a first deformable platen including a deformable quench portion for receiving a heated glass sheet; said deformable quench portion having quench openings that move therewith during the deformation of the quench portion thereof; a second deformable platen having quench openings that move therewith during deformation thereof; and the quench portions of the first deformable platen and the second deformable platen opposing each other with a bent glass sheet therebetween to supply quenching gas through the quench openings to temper the bent glass sheet.

sub B¹ 19. Glass bending and tempering apparatus comprising: a first deformable platen for receiving a heated glass sheet to be bent; an actuator for deforming the first platen from a planar shape to a bent shape; said first platen including a deformable quench portion having quench openings that move therewith during deformation thereof; a second deformable platen having quench openings that move therewith during deformation thereof; and the quench portion of the first deformable platen and the second deformable platen opposing each other with the bent glass sheet received therebetween to supply quenching gas through the quench openings to temper the bent glass sheet.

sub B² 20. Apparatus for bending and tempering glass sheets comprising:
an oven for heating flat glass sheets into a hot, soft, bendable condition,

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load conveyor means having rollers for transporting a glass sheet into the oven,

power means connected to the load conveyor rollers for rotating them,

quench means including upper quench tubes arranged in longitudinal rows which are spaced apart across the width of the quench section,

the quench means also including lower quench tubes arranged in longitudinal rows which are spaced apart across the width of the quench section,

each longitudinal row of lower quench tubes being supported on a support bar that extends lengthwise in the quench section,

quench rollers in the quench section rotatably mounted in longitudinal rows between pairs of lower quench tubes for transporting the glass sheet in the quench section,

power means connected to the quench rollers for rotating them,

means connected to the lower support bar in the quench section for moving the lower support bars to change the vertical position of the lower quench tubes and the quench rollers to a quench position where the lower quench tubes and the quench rollers have the same contour as the bent glass sheet,

means connected to the upper support bars in the quench section for moving the upper support bars to change the vertical position of the upper quench tubes to a quench position where the upper quench tubes have the same contour as the bent glass sheet,

cooling section rollers in the cooling section for transporting the quenched glass sheet in the cooling section, and

power means connected to the cooling section rollers for rotating them.

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